



ITW

PATENT APPLICATION

Docket No. 2777/3277

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of PURI et al.

Application No.: 10/811,982

Group Art Unit: 2631

Filed: March 30, 2004

Examiner: To Be Assigned

For RATE AND QUALITY CONTROLLER FOR
H.264/AVC VIDEO CODER AND SCENE
ANALYZER THEREFOR

Customer No.: 23838

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable. It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overpayment, to deposit account 11-0600.

This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d)

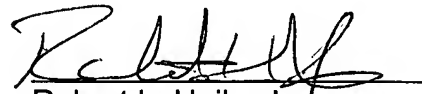
before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.

Respectfully submitted,

KENYON & KENYON

Date: November 22, 2004

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/811,982
Filing Date	March 30, 2004
First Named Inventor	PURI et al.
Art Unit	2631
Examiner Name	Not assigned
Attorney Docket Number	2777/3277

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		J. Lee and B.W. Dickinson, "Scene-adaptive motion interpolation structures based on temporal masking in human visual perception," in <i>Proc. SPIE Conference on Visual Comm. and Image Processing</i> , Cambridge, 1993, pp. 499-510.	
		A. Hanjalic, "Shot-Boundary Detection: Unraveled and resolved?," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 12, no. 2, pp. 90-105, February 2002.	
		C-L. Huang and B-Y Liao, "A robust scene-change detection method for video segmentation," <i>IEEE Signal Processing Letters</i> , vol. 7, no.7, pp. 173-175, July 2000.	
		T. Vlachos, "Cut detection in video sequences using phase correlation," <i>IEEE Signal Processing Letters</i> , vol. 7, no. 7, pp. 173-175, July 2000.	
		U. Gargi, R. Kasturi, and S.H. Strayer, "Performance characterization of video shot change detection methods," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 10, no. 1, pp. 1-13, February 2000.	
		R.M. Ford, C. Robson, D. Temple, and M. Gerlach, "Metrics for shot boundary detection in video sequences," <i>Multimedia Systems</i> , vol. 8, pp. 37-46, 2000.	
		B-L Yeo and B. Liu, "Rapid Scene analysis on compressed video," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 5, no. 6, pp. 533-544, December 1995.	
		H.J. Zhang, C.Y. Low, and S.W. Smoliar, "Video parsing and browsing using compressed data," <i>Multi-media Tools and Applications</i> , vol. 1, no. 1, pp. 89-111, March 1995.	
		H.C. Liu and G. Zick, "Automatic determination of scene changes in MPEG compressed video," in <i>Proc. IEEE Symp. Circuits and Systems</i> , Seattle, 1995, vol. 1, pp. 764-767.	
		Z. Cernekova, C. Nikou, and I. Pitas, "Shot detection in video sequences using entropy-based metrics," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 3, pp. 421-424.	
		B. Shahraray, "Scene change detection and content-based sampling of video sequences," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 2-13.	

Examiner
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Considered

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		J. Bescos, G. Cisneros, and J.M. Menendez, "Multidimensional comparison of shot detection algorithms," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 2, pp. 401-403.	
		J. Meng, Y. Juan, and S.F. Chang, "Scene change detection in a MPEG compressed video sequence," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 14-25.	
		Jungwoo Lee and Bradley W. Dickinson, "Temporally adaptive motion interpolation exploiting temporal masking in visual perception," <i>IEEE Transactions on Image Processing</i> , vol. 3, no. 5, pp 513-526, Sept. 1994.	

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